CLAIMS

- 1. A raw material composition for preparing a sintered body of aluminum titanate, the composition comprising:
- (i) 100 parts by weight of a mixture comprising 40 to 50 $\,$
- 5 mol% of TiO_2 and 60 to 50 mol% of Al_2O_3 ,
 - (ii) 1 to 10 parts by weight of alkali feldspar represented by the formula: $(Na_xK_{1-x})AlSi_3O_8$ $(0\leq x\leq 1)$, and
 - (iii) 1 to 10 parts by weight of at least one Mg-containing component selected from the group consisting of a Mg-
- 10 containing oxide with spinel structure, $MgCO_3$ and MgO.
 - 2. The raw material composition for preparing a sintered body of aluminum titanate according to claim 1, wherein the alkali feldspar has such a composition that x in the formula: $(Na_xK_{1-x})AlSi_3O_8$ is in the range of $0.1 \le x \le 1$.
- 15 3. The raw material composition for preparing a sintered body of aluminum titanate according to claim 1 or 2, wherein the molar ratio of Si in the alkali feldspar to Mg in the Mg-containing component is in the range of Si:Mg = 0.9:1 to 1.1:1.
- 4. A process for preparing a sintered body of aluminum titanate, the process comprising sintering a formed product at a temperature of 1300 to 1700°C

the formed product being prepared from a raw material composition for preparing a sintered body of aluminum

25 titanate comprising:

- (i) 100 parts by weight of a mixture comprising 40 to 50 mol% of TiO_2 and 60 to 50 mol% of Al_2O_3 ,
- (ii) 1 to 10 parts by weight of an alkali feldspar represented by the formula: $(Na_xK_{1-x})AlSi_3O_8$ $(0\le x\le 1)$, and (iii) 1 to 10 parts by weight of at least one Mg-containing component selected from the group consisting of a Mg-containing oxide with spinel structure, MgCO₃ and MgO.
- 5. A sintered body of aluminum titanate which is obtainable by the process of claim 4.

5